

Light efficiency:

103 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

3016 K

Output: 1694 lm

Peak: 2187 cd

Power: 16.5 W

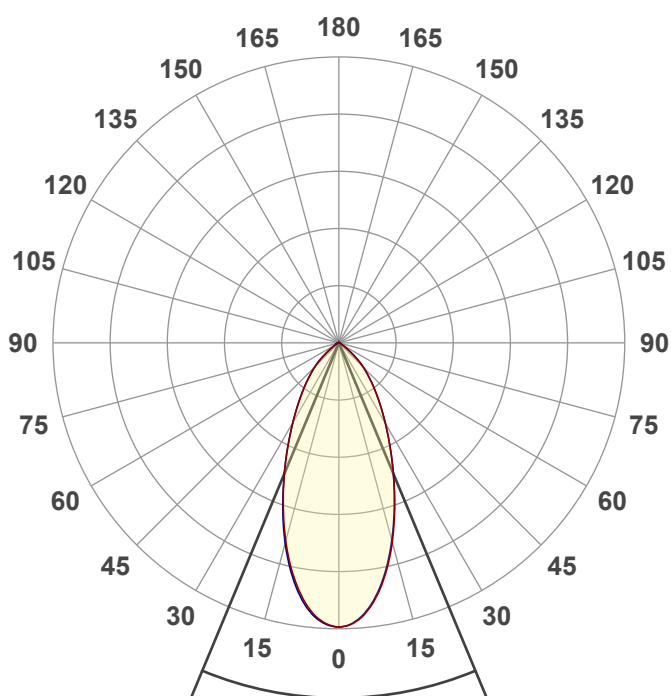
PF: 0.97



BETA-3R-SW-20LM-30K-80-45D-WH-WH

Date and time:

12/27/2022 3:46:15 PM



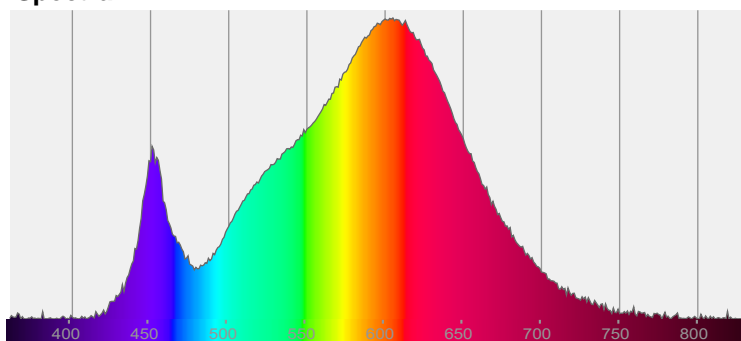
Beam angle

45.2°

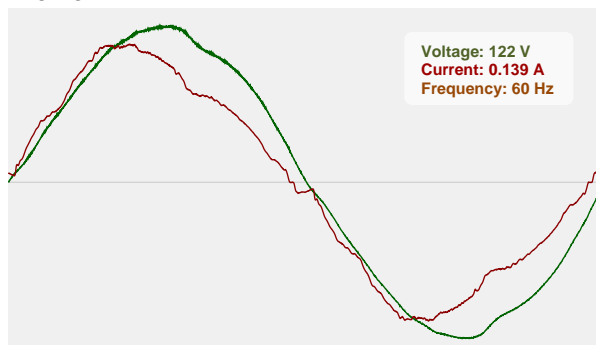


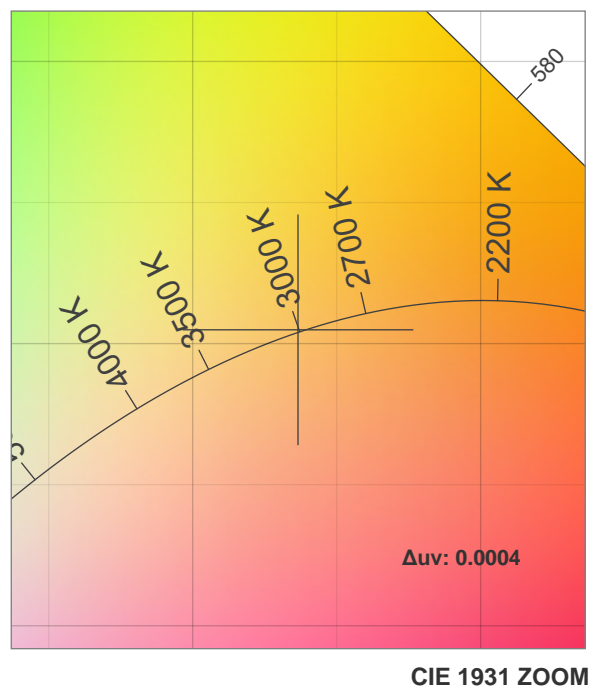
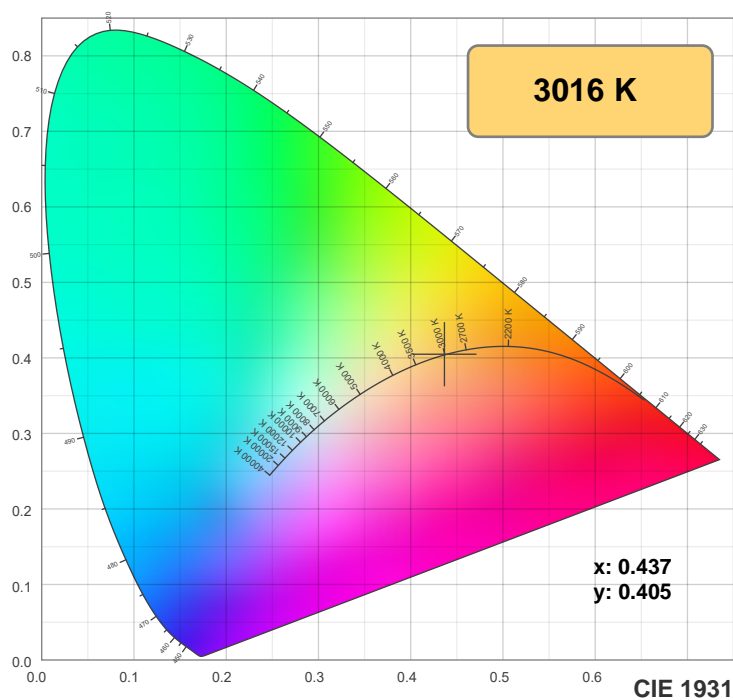
CIE 1931
x: 0.437
y: 0.405

Spectra

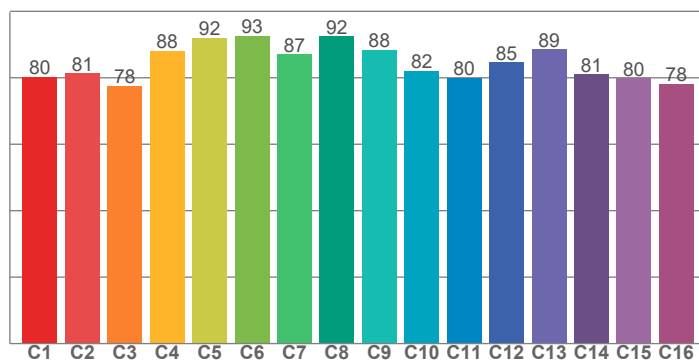


Power

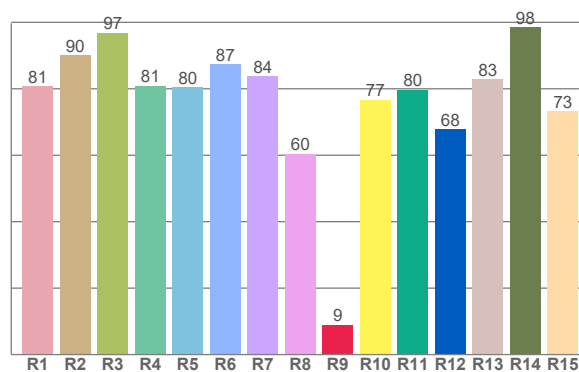




TM30: 84.5



CRI: 82.6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.8	90.0	96.8	80.9	80.5	87.3	83.9	60.5	9.0	76.7	79.8	67.8	83.0	98.4	73.3

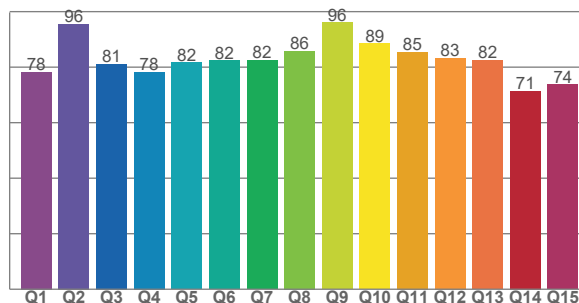
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.2	81.3	77.6	88.2	92.0	92.7	87.0	92.5	88.3	82.1	79.9	84.6	88.6	81.0	79.8	78.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.2	95.5	81.1	78.3	81.7	82.3	82.5	85.8	96.0	88.6	85.5	83.4	82.5	71.5	73.7

CQS: 81.8



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3016 K	82.6	9.0	84.5	96.3	81.8	0.437	0.405	0.250	0.348	0.0004

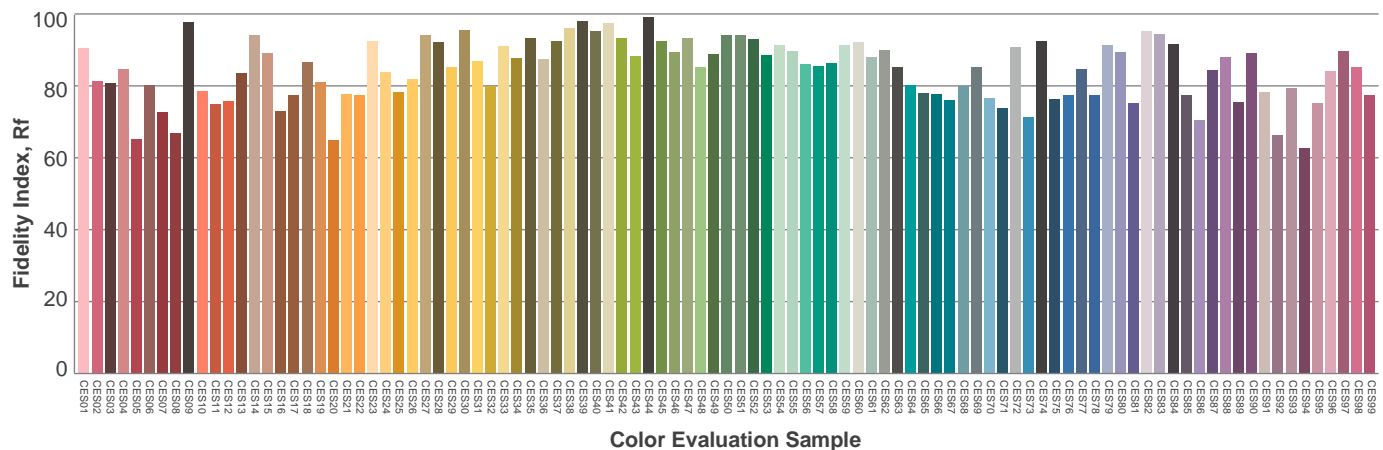
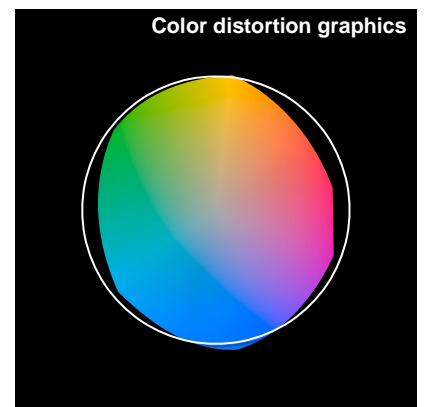
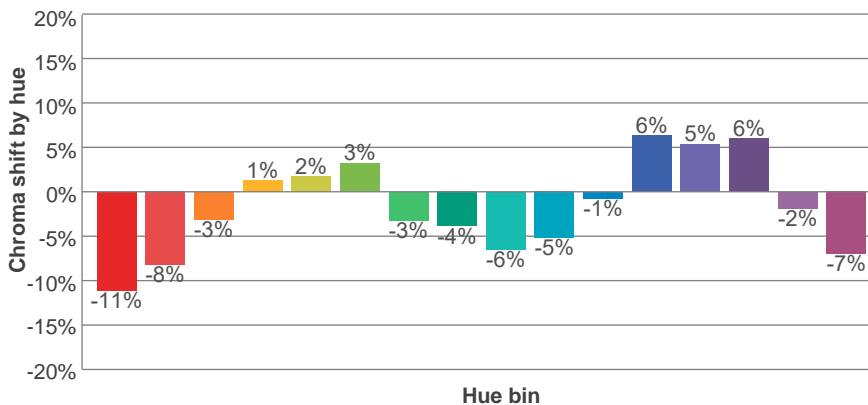
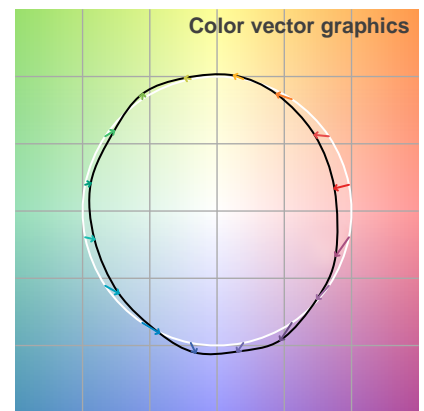
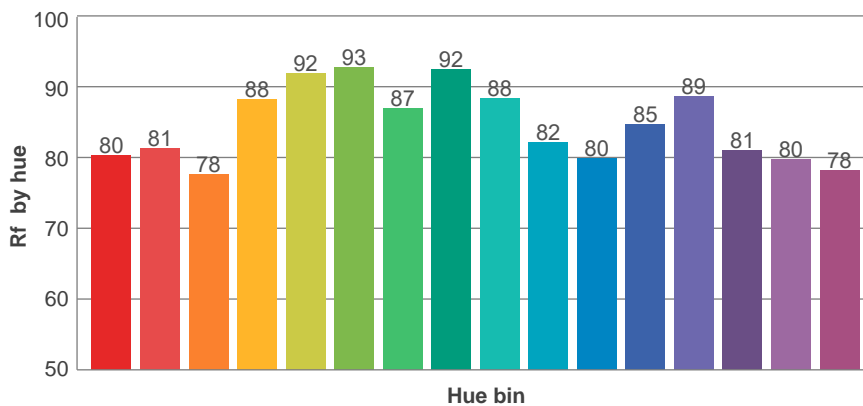
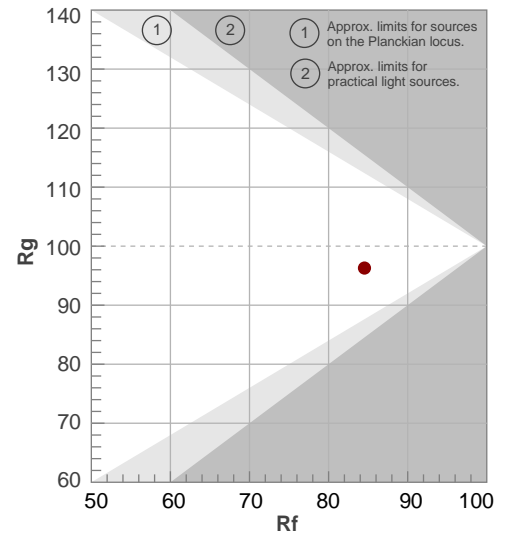
Rf 84.5

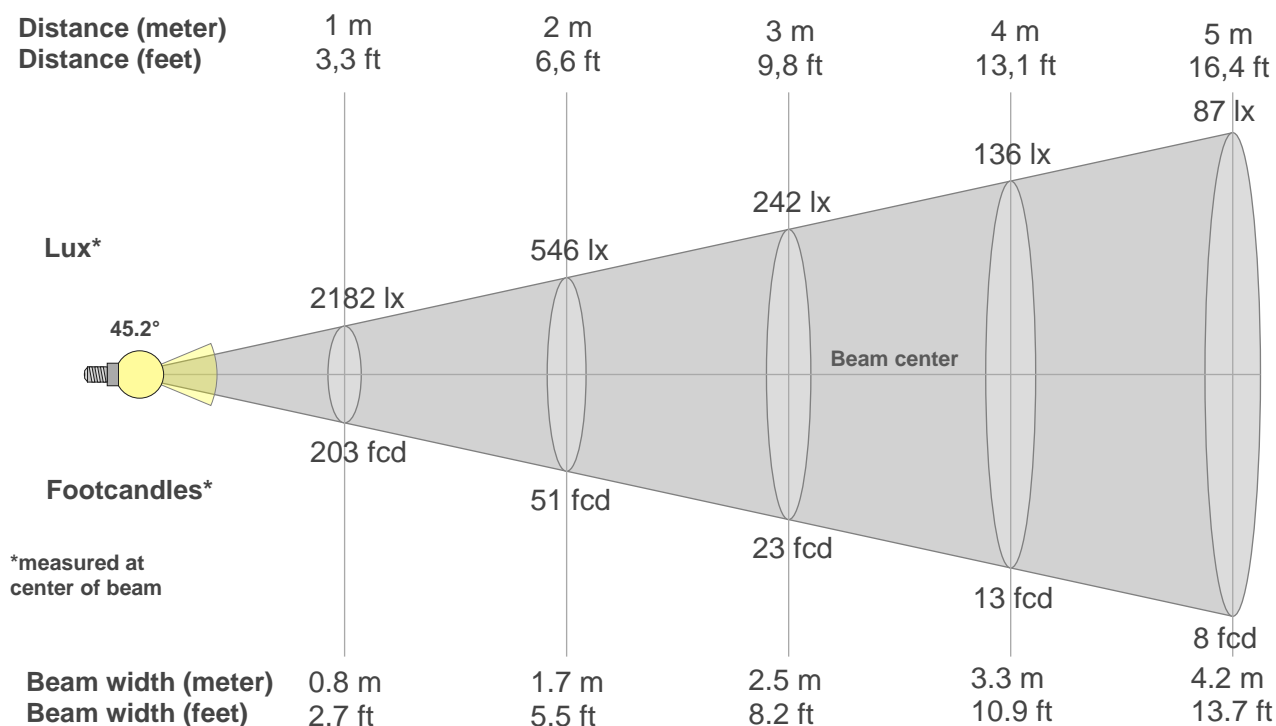
Fidelity index Rf

Rg 96.3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-1%
2	81	-8%	7%
3	78	-3%	11%
4	88	1%	7%
5	92	2%	4%
6	93	3%	-2%
7	87	-3%	-7%
8	92	-4%	-2%
9	88	-6%	3%
10	82	-5%	10%
11	80	-1%	15%
12	85	6%	5%
13	89	5%	-6%
14	81	6%	-14%
15	80	-2%	-13%
16	78	-7%	-16%





Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
2182lx	546lx	242lx	136lx	87lx	61lx	45lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	5lx
202.7fcd	50.7fcd	22.5fcd	12.7fcd	8.1fcd	5.6fcd	4.1fcd	3.2fcd	2.5fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2182	2170	2132	2071	1989	1890	1776	1651	1518	1386	1255	1127	1009	903	805	717	636	565	500	440
100%	99%	98%	95%	91%	87%	81%	76%	70%	63%	57%	52%	46%	41%	37%	33%	29%	26%	23%	20%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2182	2168	2126	2062	1978	1877	1762	1636	1505	1374	1247	1126	1011	902	805	716	635	561	495	437
100%	99%	97%	94%	91%	86%	81%	75%	69%	63%	57%	52%	46%	41%	37%	33%	29%	26%	23%	20%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2182	2166	2127	2065	1982	1880	1766	1640	1510	1378	1249	1126	1011	902	800	709	627	551	487	429
100%	99%	97%	95%	91%	86%	81%	75%	69%	63%	57%	52%	46%	41%	37%	32%	29%	25%	22%	20%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2182	2170	2136	2079	2000	1901	1785	1659	1527	1392	1257	1127	1008	897	797	708	626	554	490	431
100%	99%	98%	95%	92%	87%	82%	76%	70%	64%	58%	52%	46%	41%	37%	32%	29%	25%	22%	20%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45.2°	94.1°	112.3°	98.4%	89.6%